



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/562,225 – Conf. #9451
				Filing Date	December 23, 2005
				First Named Inventor	David Hildebrand
				Art Unit	1638
				Examiner Name	David H. Kruse
Sheet	1	of	3	Attorney Docket Number	47100-222154

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	5,378,825	01-03-1995	Cook et al.	
	A2	5,935,835	08-10-1999	Marshall et al.	
	A3	2003-0024014	01-30-2003	Cheng et al.	
	A4	5,084,082	01-28-1992	Sebastian	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C1	Arnold, L.D., R.G. May and J.C. Vederas. 1988. Synthesis of optically pure α -amino acids via salts of α -amino- β -propiolactone. J. Am. Chem. Soc. 110: 2237-2241.			
	C2	Boy, E., Borne, F. and Patte, J.C. (1979). Isolation and identification of mutants constitutive for aspartate kinase III synthesis in Escherichia coli K12. Biochemie 61: 1151-1160.			
	C3	Bright, S.W.J. and P.R. Shewry. 1983. Improvement of protein quality in cereals. CRC Crit. Rev. Plant Sci. 1: 49-93.			
	C4	Cohen, C.N. and I Saint-Girons. 1987. Biosynthesis of threonine, lysine and methionine. In: F.C. Neidhardt, ed., Escherichia coli and Salmonella typhimurium: Cellular and Molecular Biology. Amer. Soc. Microbiol., Washington, D.C. pp 429-444.			
	C5	Ghislain, M., V. Frankard and M. Jacobs. 1995. A dinucleotide mutation in dihydrodipicolinate synthase of Nicotiana sylvestris leads to lysine overproduction. The Plant J. 8: 733-743.			
	C6	Jacobs, M., Negrutiu, I., Dirks, R. and Cammaerts, D. (1987). Selection programs for isolation and analysis of mutants in plant cell cultures. In: Green C.E., Somers D.A., Hackett W.P. Biesboer DD (eds) Plant Biology. vol. 3: plant tissue and cell culture. Alan R. Liss, New York pp 243-264.			

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/562,225 – Conf. #9451
				Filing Date	December 23, 2005
				First Named Inventor	David Hildebrand
				Art Unit	1638
				Examiner Name	David H. Kruse
Sheet	2	of	3	Attorney Docket Number	47100-222154

C7	Perl A, Galili S, Shaul O, Ben-Tzvi I, Galili G (1993) Bacterial dihydrodipicolinate synthase and desensitized aspartate kinase: Two novel selectable markers for plant transformation. Bio Tech 11: 715-727.
C8	Matsumoto, N. 1984. Isolation and identification of S-2-aminoethyl-L-systeine from Rozites caperta and 2-amino-3-butenic acid from Rhodophyllus crassipes and their antibacterial activity. Toho Igakkai Zasshi 31: 249-264.
C9	Negrutiu, I., A. Cattoir-Reynearts, I. Verbruggen and M. Jacobs. 1984. Lysine overproducer mutants with an altered dihydrodipicolinate synthase from protoplast culture of Nicotiana sylvestris (Spegazzini and Comes). Theor. Appl. Genet. 68: 11-20.
C10	Shaul, O. and Galili, G. (1992). Threonine overproduction in transgenic tobacco plants expressing a mutant desensitized aspartate kinase of Escherichia coli. Plant Physiology 100: 1157-1163.
C11	Vauterin, M., V. Frankard and M. Jacobs. 2000. Functional rescue of a bacterial dapA auxotroph with a plant cDNA library selects for mutant clones encoding a feedback-insensitive dihydrodipicolinate synthase. The Plant J. 21: 239-248.
C12	Falco SC, et al., Transgenic canola and soybean seeds with increased lysine, Biotechnology (NY) 13(6):577-82, 1995.
C13	Shaul O, et al., Concerted regulation of lysine and threonine synthesis in tobacco plants expressing bacterial feedback-insensitive aspartate kinase and dihydrodipicolinate synthase, Plant Mol Biol;23(4):759-68, 1993.
C14	Brinch-Pedersen H, et al., Plant Mol Biol; 32(4):611-20, 1996.
C15	Karlin et al. (1993) Proc. Natl. Acad. Sci. USA 90:5873-5877 .
C16	Altschul et al. (1997) Nucleic Acids Res. 25:3389-3402.
C17	Devereux et al. (1984) Nucleic Acids Res. 12 (1):387-395.
C18	Silk G.W. and B.F. Matthews, 1997, Plant molecular biology, 33:931-933.
C19	Cremer J, Treptow C, Eggeling L, Sahm H., Regulation of enzymes of lysine biosynthesis in Corynebacterium glutamicum, J Gen Microbiol. 1988 Dec;134 (Pt 12):3221-9.
C20	Bonnassie S, Oreglia J, Sicard AM. Nucleic Acids Res. 1990 Nov 11;18(21):6421.
C21	Laber B, Gomis-Ruth FX, Romao MJ, Huber R, Escherichia coli dihydrodipicolinate synthase. Identification of the active site and crystallization, Biochem J. 1992 Dec 1;288 (Pt 2):691-5.
C22	Trick, H.N., R.D. Dinkins, E.R. Santarem, R. Di, V.M. Samoylov, C. Meurer, D. Walker, W.A. Parrott, J.J. Finer, and G.B. Collins. 1997. Recent advances in soybean transformation. Plant Tissue Culture and Biotechnology 3:9-26.
C23	Hazel, C.B., T.M. Klein, M. Anis, H.D. Wilde, and W.A. Parrot. 1998. Growth characteristics and transformability of soybean embryogenic cultures. Plant Cell Reports 17:765-772.
C24	Samoylov, V.M., D.M. Tucker, and W.A. Parrott. 1998. A liquid medium-based protocol for rapid regeneration from embryogenic soybean cultures. Plant Cell Reports 18:49-54.
C25	Finer, J.J., and McMullen MD 1991. Transformation of soybean via particle bombardment of embryogenic suspension culture tissue. In Vitro Cellular & Developmental Biology. Plant 27:175-82.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known		
				Application Number	10/562,225 – Conf. #9451	
				Filing Date	December 23, 2005	
				First Named Inventor	David Hildebrand	
				Art Unit	1638	
				Examiner Name	David H. Kruse	
Sheet	3	of	3	Attorney Docket Number	47100-222154	
	C26	Shaver, J., Bittel, D., Sellner, J., Frisch, D., Somers, D., Gengenbach, B. 1996 Single-amino acid substitutions eliminate lysine inhibition of maize dihydrodipicolinate synthase. Proc. Natl Acad. Sci. USA, 93, 1962-1966.				
	C27	International Search Report issued in PCT Application No. PCT/US2004/020039, mailed on February 15, 2005.				
	C28	Written Opinion issued in PCT Application No. PCT/US2004/020039, mailed on February 15, 2005.				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

DC2/918865

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--